Tohono O'odham Community College

Associate of Applied Science in Computer Information Systems

The Associate of Applied Science in Computer Information Systems is a workforce degree intended for those students seeking entry-level employment upon completion. Students who are considering continuing their education after their Associates Degree should consider the Associate of Arts in Computer Information Systems.

Sample Path Progression

If you are a part time student, take half of the classes each semester (fall 1 and spring 1). The following year, take the second half of the classes (fall 1 again and spring 1 again) until you complete the suggested sequence.

Summer 1 (6 cr hr)	
✔ STU 101 Becoming a Master Student (Recommended if student has been out of school for several years) ✔ CIS 100	
Fall 1 (16 cr hr)	**Spring 1 (13 cr hr)**
✔ WRT 101 ✔ HIS 122 ✔ MAT 142H ✔ CIS 130 ✔ GEO 267	✔ WRT 102 or SPE 110 ✔ CIS 127 ✔ CIS 140 ✔ BIO 105N
Summer 2 (0 cr hr)	
Fall 2 (15 cr hr)	**Spring 2 (14 cr hr)**
✔ CIS 210 ✔ CIS 240N ✔ CIS 250N ✔ THO 101 or 106	✔ CIS 234N ✔ CIS 240N ✔ CIS 280 ✔ CIS 297

Tohono O'odham Community College

Associate of Applied Science in Computer Information Systems

NAME:	TOCC ID:
TOCC EMAIL:	PHONE NUMBER:
TERM OF ADMISSION:	EXPECTED GRADUATION YEAR/TERM:
ACADEMIC ADVISOR:	FACULTY ADVISOR:

General Education Courses:

- Tohono O'odham Himdag (7 cr): HIS 122 (3 cr) and select one from the following: THO 101, THO 106 (4 cr)
- MAT 142H or higher (with the exception of MAT 146 and MAT 147)
- WRT 102 or SPE 110, Public Speaking

Note: MAT 142H and courses ending in N (e.g., BIO 100N) are 4 cr. hrs unless otherwise indicated. The rest of the courses are 3 cr. hrs unless otherwise indicated.

COURSE PREFIX	COURSE NAME	REPLACEMENT COURSE	SEMESTER	YEAR	CREDITS	GRADE	MET
HIS 122	Tohono O'odham History and Culture						
THO							
WRT 101	Writing I						
WRT/SPE							
MAT							
BIO 105N	Environmental Biology						
Total General Education Credits Needed: 21			**Total Earned Credits:**				

Core Requirements (CIS 100 and MAT 142H are prerequisites for the core courses):

COURSE PREFIX	COURSE NAME	REPLACEMENT COURSE	SEMESTER	YEAR	CREDITS	GRADE	MET
CIS 100	Introduction to Computers						
CIS 127	Programming and Problem Solving I						
CIS 130	Fundamentals of Computer Networking						
CIS 140	Introduction to Risk Management						
CIS 210	Introduction to System Administration						
CIS 280	IT Project Management						
CIS 297	Internship/Practicum						
Total Core Credits Needed: 21			**Total Earned Credits:**				

Electives:

COURSE PREFIX	COURSE NAME	REPLACEMENT COURSE	SEMESTER	YEAR	CREDITS	GRADE	MET

Tohono O'odham Community College

CIS 234N	CIS 234N Cybersecurity and Network Defense						
CIS 240N	Network Security						
CIS 250N	Coding Fundamentals						
GEO 267	Introduction to GIS						
CIS XXX							
Total Core Credits Needed: 18			**Total Earned Credits:**				
Total Program Credits Needed: 60			**Total Earned Credits:**				

Program Learning Outcomes:

1. Technical Skills: Develop advanced proficiency in programming languages, database management, and network administration.
   a) Measurable Objective: Students will demonstrate proficiency in at least one programming languages and complete projects showcasing their ability to use databases, adjust network configurations, and apply cybersecurity processes.
2. Problem-Solving: Enhance critical thinking abilities to troubleshoot and solve complex IT problems.
   a) Measurable Objective: Students will successfully troubleshoot and resolve at least three simulated IT problems during lab exercises or projects, including more advanced issues.
3. Communication: Improve communication skills for effective customer service, technical documentation, and presentations.
   a) Measurable Objective: Students will deliver a technical presentation or write a report demonstrating clear communication of advanced IT concepts and solutions.
4. Ethical Awareness: Understand and apply ethical principles in IT practices.
   a) Measurable Objective: Students will analyze complex ethical dilemmas in IT scenarios and propose solutions aligned with professional standards and Tohono O'odham Himdag.
5. Collaboration: Work effectively in teams on advanced IT projects.
   a) Measurable Objective: Students will lead and participate in group projects, demonstrating effective leadership and teamwork in achieving project goals.

Students:

You must secure official approval by your advisor(s) before submitting the **final** Program of Study. By signing or entering your name below, you agree to the following statement: "Students are responsible for complete knowledge of Academic Catalog requirements in their degree plan and for adhering to all policies in Academic Catalog and Student Handbook."

Signature Panel:

Please indicate approval of the curriculum on the Program of Study by placing your signature (formal electronic signatures are permitted) in the space provided.

Student:	Date:
Academic Advisor:	Date:

Tohono O'odham Community College

Faculty Advisor:	Date:
Registrar:	Date:
Dean of Academics:	Date: